

IMAGE MATCHING SYSTEM AND IMAGE MATCHING METHOD AND
PROGRAM

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ABSTRACT OF THE DISCLOSURE

An image matching system, method, and program for matching two images even if there is a difference of parallel movement, rotation angle, and scale between two
10 images. A Fourier-Mellin transform is a Fourier transform and a log- polar coordinate transform to a registered image and a matching image. A phase only correlation unit and scalar information-rotation information generation unit generate correction information including scalar
15 information and rotation information based on correlation strength of the phase information based on the transform result, a correction unit corrects the matching image RIM in accordance with the correction information, a parallel movement unit performs phase only correlation based on
20 the image resulting from the correction processing and the registered image, a correlation value generation unit generates a correlation value based on the correlation image data, and a judgment unit performs judgment concerning the matching based on the correlation value.

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